10/21/el/6

Scientific Laboratory Division 1101 Camino de Salud, N.E. Albuquerque, NM 87102 (505) 383-9000





LIMS Report #:

278552

Request Id:

2479605

Submitter: NMED Field Office, Silver City

3802 32nd St. Bypass, Suite D

Silver City, NM 88061

Submitter Code:

85

Collector:

MATT SCHULTZ

User Code:

55410

CC Recipient(s):

Facility/Sampling Point ID:

GROUNDHOG #5

COC Initiated:

Sample #: Sample Type: 2014030886

Water, Non-filtered

Date Collected:

9/30/2014

Date Received:

10/1/2014

Date Reported:

10/28/2014

Sample Note:

NPS Anions

EPA 300.0 Part A Anions - Chloride and/or Sulfate

Analysis Date: 10 15 2014 12 34 08

Result Chloride <10.0

Units mg/L

MRL

10

Dilution Factor 1

SDL 10.0

Data Qualifier Analyst

EPA 300.0 Part A Anions - Chloride and/or Sulfate

Analysis Date: 10 15 2014 5 05 50

Result

Sulfate 1700

Units mg/L

MRL 10

Dilution Factor 100

SDL

1000

BC

BC

BC

BC

BC

BC

Analyst

Analyst

Analyst

Data Qualifier

SLD Screen Color

Analysis Date: 10/01/2014 16:21:00

Result Color Comparison 5

Units NTU

MRL **Dilution Factor** SDL

Data Qualifier

SM 2320 B - Alkalinity, bicarbonate, carbonate, pH

Analysis Date: 10/06/2014 12:33

Result

Units mg/L

mg/L

MRL 20

Dilution Factor

SDL

Data Qualifier

Carbonate 0

Bicarbonate 130

Alkalinity 130

mg/L

0

20

0

1 1 20.0

0

20.0

A

Note:

LRB was greater than the MDL but less than the MRL





Sample #: 2014030886

Print Date: 10/28/2014

LIMS Report #: 278552 Request Id: 2479605

 Sample #:
 2014030886
 Date Collected:
 9/30/2014

 Sample Type:
 Water, Non-filtered
 Date Received:
 10/1/2014

 Date Reported:
 10/28/2014

SM2510B Conductivity

Analysis Date: 10/22/2014 14:10:00 Result Units MRL Dilution Factor SDL Analyst Data Qualifier

Conductivity 3070 μ mho/ 0.18 1 0.18 BC cm

SM2540C Total Dissolved Solids (TDS)

Analysis Date: 10/06/2014 15:45:00 Result Units MRL Dilution Factor SDL Analyst Data Qualifier

Total Dissolved Solids 3090 mg/L 25.0 1 25 ALS

SM 2540D Total Suspended Solids - TSS

Analysis Date: 10/03/2014 12:05:00 Result Units MRL Dilution Factor SDL Analyst Data Qualifier

Total Suspended Solids <3 mg/L 3.0 1 3 GPL

SM4500F-C - Fluoride

Analysis Date: 10/20/2014 10:12 Result Units MRL Dilution Factor SDL Analyst Data Qualifier

Fluoride 0.68 mg/L 0.1 1 0.10 BC **A**

Note: LRB was greater than the MDL but less than the MRL

SM 4500H+ pH

Analysis Date: 10/06/2014 12:33 Result Units MRL Dilution Factor SDL Analyst Data Qualifier

pH 7.17 BC

Final

Sample #: 2014030886

Confidential Page 2 of 3 Print Date: 10/28/2014

Definitions

- MRL Minimum Reporting Limit (lowest concentration that can be reported).
- MDL Method Detection Limit (lowest concentration that is differentiated from zero with 99% confidence)...
- MCL USEPA Maximum Contamination Level for SDWA regulated analytes and parameters.
- SDL Sample Detection Limit (Dilution Factor x MDL (organics)) or Dilution Factor x MRL (inorganics)).

Units

- mg/L milligrams of analyte in a liter of water.
- μ g/L micrograms of analyte in a liter of water.
- mg/kg milligrams of analyte in a kilogram of soil, sediment, or solid.
- μ g/kg micrograms of analyte in a kilogram of soil, sediment, or solid.
- ppbv parts per billion by volume air.

Data Qualifier Codes

- A See note/comments.
- **B** Analyte was detected in the laboratory blank.
- C Spike recovery is within method acceptance limits.
- Spike recovery is not within method acceptance limits.
- **E** Analyte value exceeded calibration range.
- F Sample matrix interference suspected.
- H Sample was analyzed in duplicate.
- I Sample was analyzed in triplicate.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- K Holding time was exceeded at laboratory.

- L Regulated parameter value equals or exceeds the EPA SDWA Maximum Contamination Level.
- **M** Regulated parameter value equals or exceeds the EPA SDWA Action Level.
- N Insufficient sample to verify results.
- **O** Method internal standard(s) not within method acceptance limits when analyzed undiluted.
- **P** Sample rejected/voided at laboratory.
- **Q** Sample submitted to laboratory past holding time.
- **S** Relative percent difference between duplicates greater than 10% (waters).
- **T** Relative percent difference between duplicates greater than 30% (soils).
- U Analyte was not detected in this sample above the method's sample detection limit.



Print Date: 10/28/2014

Scientific Laboratory Division 1101 Camino de Salud, N.E. Albuquerque, NM 87102 (505) 383-9000 EPA: 141001-2011



LIMS Report #:

280038

Request Id:

2479607

Submitter:

NMED Field Office, Silver City

3802 32nd St. Bypass, Suite D

Silver City, NM 88061

Submitter Code:

85

Collector:

MATT SCHULTZ

User Code:

55410

CC Recipient(s):

Facility/Sampling Point ID:

GROUNDHOG #5

COC Initiated:

No

Sample #: Sample Type: 2014030888

Water, Filtered

Date Collected:

9/30/2014 10:45

Date Received:

10/1/2014 13:20

Date Reported:

11/6/2014

Sample Note:

Dissolved Metals

200.7 ICP/OES Metals (Liquid)				Dilution		Analyst	Data
Analysis Date: 10/03/2014	Result	Units	MRL	Factor	SDL	initials	Qualifier
Boron	0.08	mg/L	0.05	1	0.05	KMS	0.24
Calcium	580	mg/L	1	1	1	KMS	
iron	< 0.05	mg/L	0.05	1	0.05	KMS	
Magnesium	140	mg/L	0.1	1	0.1	KMS	
Potassium	32	mg/L	1	1	1	KMS	
Sodium	68	mg/L	1	1	1	KMS	
Total Hardness	2000	mg/L		1		BGD	
PA 200.8 ICP/MS Metals (Liquid)				Dilution		Analyst	Data
Analysis Date: 10/23/2014 14:08	Result	Units	MRL	Factor	SDL	initials	Qualifier
Aluminum	<0.01	mg/L	0.01	1	0.01	SMP	С
Antimony	< 0.001	mg/L	0.001	1	0.001	SMP	С
Arsenic	0.002	mg/L	0.001	1	0.001	SMP	C
Barium	0.1	mg/L	0.1	1	0.1	SMP	C
Beryllium	< 0.001	mg/L	0.001	1	0.001	SMP	C
Cadmium	< 0.001	mg/L	0.001	1	0.001	SMP	С
Chromium	< 0.001	mg/L	0.001	1	0.001	SMP	C
Cobalt	0.001	mg/L	0.001	1	0.001	SMP	С
Copper	0.01	mg/L	0.01	1	0.01	SMP	C
Lead	< 0.001	mg/L	0.001	1	0.001	SMP	C
Molybdenum	0.003	mg/L	0.001	1	0.001	SMP	С
Nickel	0.03	mg/L	0.01	1	0.01	SMP	С
	< 0.001	mg/L	0.001	1	0.001	SMP	C



LIMS Report #: 280038

Request Id:

2479607

Sample #: Sample Type: 2014030888

Water, Filtered

Date Collected:

9/30/2014 10:45

Date Received:

10/1/2014 13:20

Date Reported:

11/6/2014

EPA 200.8 ICP/MS Metals (Liquid)				Dilution		Analyst	Data	
Analysis Date: 10/23/2014 14:08	Result	Units	MRL	Factor	SDL	initials	Qualifier	
Thallium	<0.001	mg/L	0.001	1	0.001	SMP	C	
Uranium	0.003	mg/L	0.001	1	0.001	SMP	C	
Vanadium	0.006	mg/L	0.001	1	0.001	SMP	С	
Zinc	0.03	mg/L	0.01	1	0.01	SMP	С	
EPA 200.8 ICP/MS Metals (Liquid)				Dilution		Analyst	Data	
Analysis Date: 10/29/2014 13:45	Result	Units	MRL	Factor	SDL	initials	Qualifier	
Manganese	0.11	mg/L	0.001	5	0.005	SMP		
EPA 200.9 GFAA Selenium (Liquid)				Dilution		Analyst	Data	
Analysis Date: 10/9/2014	Result	Units	MRL	Factor	SDL	initials	Qualifier	
Selenium	0.012	mg/L	0.005	1	0.005	MMW		-
EPA 245.1 CVAA Mercury (Liquid)				Dilution		Analyst	Data	
Analysis Date: 10/17/2014	Result	Units	MRL	Factor	SDL	initials	Qualifier	
Mercury	<0.0002	mg/L	0.0002	1	0.0002	CL .		no-arrivitys/salaress

Sample #: 2014030888

Print Date: 11/6/2014

Definitions

- MRL Minimum Reporting Limit (lowest concentration that can be reported).
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- SDL Sample Detection Limit (Dilution Factor x MDL (organics) or Dilution Factor x MRL (inorganics)).

Units

- mg/L milligrams of analyte in a liter of water.
- μg/L micrograms of analyte in a liter of water.
- mg/kg milligrams of analyte in a kilogram of soil, sediment, or solid.
- μg/kg micrograms of analyte in a kilogram of soil, sediment, or solid.
- ppbv parts per billion by volume air.

Data Qualifier Codes

- A See note/comments.
- B Analyte was detected in the laboratory blank.
- C Spike recovery is within method acceptance limits.
- D Spike recovery is not within method acceptance limits.
- E Analyte value exceeded calibration range.
 - Sample matrix interference suspected.
- H Sample was analyzed in duplicate.
- I Sample was analyzed in triplicate.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- K Holding time was exceeded at laboratory.

- L Regulated parameter value equals or exceeds the EPA SDWA Maximum Contamination Level.
- M Regulated parameter value equals or exceeds the EPA SDWA Action Level.
- N Insufficient sample to verify results.
- O Method internal standard(s) not within method acceptance limits when analyzed undiluted.
- P Sample rejected/voided at laboratory
- Q Sample submitted to laboratory past holding time
- S Relative percent difference between duplicates greater than 10% (waters).
- T Relative percent difference between duplicates greater than 30% (soils).
- U Analyte was not detected in this sample above the method's sample detection limit.

Final

Sample #: 2014030888

Confidential Page 3 of 3 Print Date: 11/6/2014

Scientific Laboratory Division 1101 Camino de Salud, N.E. Albuquerque, NM 87102 (505) 383-9000 EPA: 141001-2011



LIMS Report #:

283263

Request Id:

2479606

Submitter:

NMED Field Office, Silver City

3082 32nd St. Bypass, Suite D

Silver City, NM 88061

Submitter Code:

85

Collector:

MATT SCHULTZ

User Code:

55410

CC Recipient(s):

Facility/Sampling Point ID:

GROUNDHOG #5

Analyst Data

COC Initiated:

No

Sample #:

2014030887

Date Collected:

9/30/2014 10:45

Sample Type:

EPA 200.7 ICP/OES Metals (Liquid)

Water, Non-filtered

Date Received:

10/1/2014 13:20

Date Reported:

12/4/2014

Dilution

Sample Note:

Total Metals

	Aluminum	<0.01	mg/L	0.01	1	0.01	SMP	C	
Analysis D	alysis Date: 11/25/2014 13:41		Units	MRL	Factor	SDL	initials	Qualifier	13,
EPA 200.8	ICP/MS Metals (Liquid)				Dilution		Analyst	Data	
Note:	Sample digested using SLD N	lethod 41414							
	Total Hardness	2100	mg/L		5		KMS		
	Magnesium	150	mg/L	0.1	5	0.5	KMS		
	Calcium	590	mg/L	1	5	5	KMS		45
Analysis D	Date: 10/30/2014	Result	Units	MRL	Factor	SDL	initials	Qualifier	
EPA 200.7	ICP/OES Metals (Liquid)				Dilution		Analyst	Data	
Note:	Sample digested using SLD N	lethod 41414 B	oron Diges	LRB = 0.	008mg/L				
	Boron	0.08	mg/L	0.05	1	0.05	KMS		
Analysis D	Date: 10/30/2014	Result	Units	MRL	Factor	SDL	initials	Qualifier	
EPA 200.7	ICP/OES Metals (Liquid)				Dilution		Analyst	Data	
Note:	Sample digested using SLD N	Method 41414							
	Sodium	69	mg/L	1	1	1	KMS	C	
	Potassium	33	mg/L	1	1	1	KMS	С	
	Iron	< 0.05	mg/L	0.05	1	0.05	KMS	С	
Analysis [Date: 10/27/2014	Result	Units	MRL	Factor	SDL	initials	Qualifier	



Sample #: 2014030887

Confidential Page 1 of 3 Print Date: 12/4/2014

LIMS Report #:

283263

Request Id:

2479606

Sample #:

2014030887

Sample Type:

Water, Non-filtered

Date Collected:

9/30/2014 10:45

Date Received:

10/1/2014 13:20

Date Reported:

12/4/2014

				-				
EPA 200.8 ICP/N	AS Metals (Liquid)				Dilution		Analyst	Data
Analysis Date: 1	11/25/2014 13:41	Result	Units	MRL	Factor	SDL	initials	Qualifier
1	Antimony	<0.001	mg/L	0.001	1	0.001	SMP	С
	Arsenic	< 0.001	mg/L	0.001	1	0.001	SMP	C
	Barium	0.1	mg/L	0.1	1	0.1	SMP	D
	Beryllium	< 0.001	mg/L	0.001	1	0.001	SMP	C
	Cadmium	< 0.001	mg/L	0.001	1	0.001	SMP	C
	Chromium	< 0.001	mg/L	0.001	1	0.001	SMP	C
	Cobalt	0.001	mg/L	0.001	1	0.001	SMP	C
	Copper	0.01	mg/L	0.01	1	0.01	SMP	C
	Lead	< 0.001	mg/L	0.001	1	0.001	SMP	С
	Molybdenum	0.003	mg/L	0.001	1	0.001	SMP	C
	Nickel	0.02	mg/L	0.01	1	0.01	SMP	С
	Silver	< 0.001	mg/L	0.001	1	0.001	SMP	C
	Thallium	< 0.001	mg/L	0.001	1	0.001	SMP	C
	Uranium	0.003	mg/L	0.001	1	0.001	SMP	C
	Vanadium	0.005	mg/L	0.001	1	0.001	SMP	C
	Zinc	0.03	mg/L	0.01	1	0.01	SMP	C
Note: Sa	mple digested using SLI	Method 41414	Barium dige	st LFM re	covery=35.2%	6		
EPA 200.8 ICP/N	/IS Metals (Liquid)				Dilution		Analyst	Data
Analysis Date:	12/03/2014 14:22	Result	Units	MRL	Factor	SDL	initials	Qualifier
	Manganese	0.12	mg/L	0.001	5	0.005	SMP	С
Note: Sa	mple digested using SLI	Method 41414						
EPA 200.9 GFA	A Selenium (Liquid)				Dilution		Amakast	Data
Analysis Date:	10/23/2014	Result	Units	MRL	Factor	SDL	Analyst initials	Qualifier
	Selenium	0.012	mg/L	0.005	1	0.005	MMW	D, F
Note: Sa	mple digested using SLI	Method 41414	Selenium di	gest LFM=	=78.5% (EPA	allows +/-30	1%)	
EPA 245.1 CVA	A Mercury (Liquid)				Dilution		Analyst	Data
Analysis Date:	10/17/2014	Result	Units	MRL	Factor	SDL	initials	Qualifier
_	Mercury	<0.0002	mg/L	0.0002	1	0.0002	CL	

Final

Sample #: 2014030887

Print Date: 12/4/2014

Definitions

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- MDL Method Detection Limit (lowest concentration that is differentiated from zero with 99% confidence)...
- MCL USEPA Maximum Contamination Level for SDWA regulated analytes and parameters.
- SDL Sample Detection Limit (Dilution Factor x MDL (organics) or Dilution Factor x MRL (inorganics)).

Units

- mg/L milligrams of analyte in a liter of water.
- μ g/L micrograms of analyte in a liter of water.
- mg/kg milligrams of analyte in a kilogram of soil, sediment, or solid.
- μ**g/kg** micrograms of analyte in a kilogram of soil, sediment, or solid.
- ppbv parts per billion by volume air.

Data Qualifier Codes

- A See note/comments.
- B Analyte was detected in the laboratory blank.
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- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- K Holding time was exceeded at laboratory.

- L Regulated parameter value equals or exceeds the EPA SDWA Maximum Contamination Level.
- M Regulated parameter value equals or exceeds the EPA SDWA Action Level.
- N Insufficient sample to verify results.
- Method internal standard(s) not within method acceptance limits when analyzed undiluted.
- P Sample rejected/voided at laboratory
- Q Sample submitted to laboratory past holding time
- S Relative percent difference between duplicates greater than 10% (waters).
- T Relative percent difference between duplicates greater than 30% (soils).
- U Analyte was not detected in this sample above the method's sample detection limit.

Final

Sample #: 2014030887

Confidential Page 3 of 3 Print Date: 12/4/2014

Site	Sample	Sample	Comments	Reason for	MissingParameterName0	Al, Diss	Alk, CO3	Al, Tot.	Alk, HCO3	Alk, Tot.	As, Diss	As TR	Ca, Diss	Ca, Tot.
Number	Identifier	Date		No Sample		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Water Quality Standard						5					0.1			
Luckybill Trench	Luckybill Trench	9/30/2014	Chino Split		NA	<0.08	<1	<0.08	132	132	<0.025	<0.025	560	538
Luckybill Trench	Luckybill Trench	9/30/2014	NMED Split			<0.01	0	<0.01	130	130	0.002	<0.001	580	590

Report Date: 1/12/2015 Page 1 of 4

Site	Sample	Sample	Comments	Reason for	Cd, Tot.	Cd, Diss	CI, Tot.	Co, Diss	Co, Tot.	Cond, Fld	Cond, 25C	Cr, Diss	Cr, Tot.	Cu, Diss	F, Tot.
Number	Identifier	Date		No Sample	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(micromho)	(micromho)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Water Quality Standard						0.01	250	0.05				0.05		1	1.6
Luckybill Trench	Luckybill Trench	9/30/2014	Chino Split		<0.002	<0.002	3.97	<0.006	<0.006	2,831	3,110	<0.006	<0.006	<0.01	1.02
Luckybill Trench	Luckybill Trench	9/30/2014	NMED Split		<0.001	<0.001	<10.0	0.001	0.001		3,070	<0.001	<0.001	0.01	0.68

Report Date: 1/12/2015 Page 2 of 4

Site	Sample	Sample	Comments	Reason for	Fe, Diss	Fe, Tot.	K, Diss	K, Tot.	Mg, Diss	Mg, Tot.	Mn, Diss	Mn, Tot.	Na, Diss	Ni, Diss	Na, Tot.	Ni, Tot.
Number	Identifier	Date		No Sample	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Water Quality Standard					1						0.2			0.2		
Luckybill Trench	Luckybill Trench	9/30/2014	Chino Split		<0.06	<0.06	33.9	34.7	144	145	0.0993	0.096	71.5	<0.01	73.8	<0.01
Luckybill Trench	Luckybill Trench	9/30/2014	NMED Split		<0.05	<0.05	32	33	140	150	0.11	0.12	68	0.03	69	0.02

Report Date: 1/12/2015 Page 3 of 4

Site	Sample	Sample	Comments	Reason for	Pb, Diss	pH, Field	Pb, Tot.	SO4, Tot.	TDS	Water Temp	Water Temp	Zn, Diss	Zn, Tot.
Number	Identifier	Date		No Sample	(mg/L)	(SU)	(mg/L)	(mg/L)	(mg/L)	(Degrees C)	(Degrees F)	(mg/L)	(mg/L)
Water Quality Standard					0.05	6 - 9		600	1000			10	
Luckybill Trench	Luckybill Trench	9/30/2014	Chino Split		<0.0075	6.7	<0.0075	2,070	3,070	20.3	68.5	0.0355	0.0362
Luckybill Trench	Luckybill Trench	9/30/2014	NMED Split		<0.001		<0.001	1,700	3,090			0.03	0.03

Report Date: 1/12/2015 Page 4 of 4